



SIMSON ISR 70-01

SILYL MODIFIED POLYMER

KEY BENEFITS

- Durable and reliable seals
- Accommodates high thermal expansion
- Safe for workers and environment

DESCRIPTION

Simson ISR 70-01 is a high quality permanently elastic sealant based on Silyl Modified Polymers (SMP). Due to its high elasticity and low hardness, it is especially suitable for applications which are subject to large movements. Simson ISR 70-01 has excellent resistance to UV, weather and temperature and is free of solvents, isocyanates and silicone. It exhibits excellent adhesion performance on a wide variety of substrates (minimal or no pre-treatment necessary) and can be over-painted with common industrial paints.

APPLICATION

- Sealing in e.g. bus, caravan, train and truck construction
- Sealing of air conditioning equipment
- Sealing of aluminium (airfreight) containers
- Sealant for sound and vibration reducing applications

FEATURES

- Solvent-, isocyanate- and PVC free
- Very good UV-resistance and ageing properties
- In general good adhesion on several substrates without the use of a primer
- Permanent elastic within temperatures from -40°C till +110°C
- Neutral, odourless and fast curing
- Paint compatible with most industrial paint- or lacquer systems, both alkyd resin and dispersion based (due to the large scale of different types of industrial paints a paint compatibility test is recommended)
- Paintable after skin forming (wet on wet); this will not influence the curing speed

TECHNICAL DATA

CHARACTERISTIC		VALUE
Basic material		Silyl Modified Polymer (SMP)
Curing method		Moisture
Specific gravity	[g/ml]	ca. 1.4
Skin forming time 20°C/50% R.H.	[min]	ca. 30
Curing speed after 24 hrs 20°C/50% R.H.	[mm]	ca. 3
Shore A hardness DIN 53505		ca. 20
Volume change DIN 52451	[%]	<3
Tensile stress (100%) DIN 53504/ISO 37	[MPa]	ca. 0.6
Tensile stress at break DIN 53504/ISO 37	[MPa]	ca. 1.5
Elongation at break DIN 53504/ISO 37	[%]	ca. 350
Tear propagation * DIN 53515/ISO 34	[N/mm]	ca. 10
Solvent percentage	[%]	0
Isocyanate percentage	[%]	0
Temperature resistance	[°C]	- 40 till + 100
Application temperature	[°C]	+5 to +35
UV- and weather resistance		Excellent
Colours		White, grey, black
Packaging		290 ml cartridges, 600 ml sausages

* Type C, test speed 500 mm/min.

ADHESION

In general ISR 70-01 adheres well without primer on clean, dry, dust- and grease free substrates of aluminium, stainless steel, galvanised steel, zinc, copper, brass, powder coated metal, most lacquered metal surfaces, glass, PVC, polyester (GRP), painted and lacquered wood, etc. No adhesion on untreated polyethylene, polypropylene and teflon. In those cases where, due to great thermal or physical loads and especially under wet conditions, high adhesion demands are needed, the use of Simson Prep M is recommended. Prep M degrades and prepares the surface of the substrate in one step. On plain, untreated wooden surfaces and other porous substrates Simson Prep P is recommended. For more details concerning Prep M and Prep P consult the specific Technical Data Sheet. For not mentioned substrates and additional information consult Bostik.

METHOD OF USE

ISR 70-01 can easily be extruded with a hand- or air pressure gun at temperatures between +5°C and +35°C. ISR 70-01 should be tooled or smoothed within 30 minutes (at 20°C/50% R.H.) with a spatula or putty knife, occasionally moistened with a soap solution. Avoid soap solution penetrating between joint sides and sealant, because this will create loss of adhesion.

At a temperature of +20°C and a relative humidity of 50% ISR 70-01 can be painted with the most industrial paints already 30 minutes after application. Best adhesion of paint coats is generally obtained if painted within 4 hours after applying ISR 70-01.

Cleaning tools or removing uncured residue of ISR 70-01 can be done with a clean colourless cloth, wetted with Simson Liquid 1. It is recommended to make a trial first to check possible attack of the substrate by Liquid 1.

STORAGE STABILITY

ISR 70-01 can be stored for 12 months in an original, unopened container in a dry place at temperatures between +5°C and +30°C (cartridges 18 months).

FURTHER INFORMATION

The following publication is available on request:

- Material Safety Data Sheets (MSDS)

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SMART HELP

Please contact your local representative



Bostik S.A.

La Plaine Saint-Denis, France
Phone : +33 (0)1 55 99 90 00
Fax : +33 (0)1 55 99 90 01
www.bostik.fr

Bostik AB

Helsingborg, Sweden
Phone : +46 (0) 42 19 50 00
Fax : +46 (0) 42 19 50 60
www.bostik.se

Bostik Ltd.

Stafford, UK
Phone : +44 (0) 1785 27 27 27
Fax : +44 (0) 1785 22 26 65
www.bostik.co.uk

Bostik Belux SA-NV

Bruxelles, Belgium
Phone : +32 (0) 2 370 20 69
Fax : +32 (0) 2 332 29 01
www.bostik.be

Bostik GmbH

Borgholzhausen, Germany
Phone : +49 (0)54 25/801-0
Fax : +49 (0)54 25/801140
www.bostik.de

Mydrin S.r.l

Milano, Italy
Phone : +39 02 59918.1
Fax : +39 02 59918.815
www.mydrin.it

Bostik B.V.

's-Hertogenbosch, The Netherlands
Phone : +31 (0)7 36 244 244
Fax : +31 (0)7 36 244 344
www.bostik.nl